

## ABSTRACT

An electronic radio frequency identification system comprises a reader  
12 and a plurality of transponders to be read by the reader. The reader  
5 comprises a recovery circuit 32 for recovering and separating an upper  
sideband 26.12 and a lower sideband 26.11 of a modulated response  
signal 26.1 from one of the transponders. The reader further comprises  
an evaluating circuit 38 for evaluating and selecting one of the upper  
sideband the lower sideband for output to a next stage, based on the  
evaluation.

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